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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/CEMENT/2019-20 Date: 03.07.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	01.07.2019
Period of Testing	:	01.07.2019 to 03.07.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/SAND-Gradation/2019-20 03.07.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	01.07.2019
Date of Testing	:	03.07.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.80	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	61.10	30-70	55-90	75-100	90-100
600 Micron	39.70	15-34	35-59	60-79	80-100
300 Micron	21.10	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/AGG/GR/2019-20 03.07.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	01.07.2019
Date of Testing	:	03.07.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.10	95-100	85-100
10	38.70	25-55	0-20
4.75	5.20	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/CC Solid Block/2019-20 08.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	06.07.2019
Date of Testing	:	08.07.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	25.63	256.3	4.27	Minimum required Compressive Strength of Individual Units 4.0 N/mm^2
2	Block 2	26.74	257.8	4.30	
3	Block 3	24.15	262.3	4.37	
4	Block 4	25.36	260.9	4.35	
5	Block 5	25.89	259.8	4.33	
6	Block 6	26.13	260.2	4.34	
7	Block 7	24.82	264.7	4.41	
8	Block 8	25.45	263.8	4.40	

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/CC Solid Block/2019-20 08.07.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**		BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference		IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	06.07.2019
Date of Testing	:	08.07.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm^3	Density in Kg/m^3	Average Density Kg/m^3
1	400x150X200	25.452	12000.00	2121.00	2151.81
2	400x150X200	26.535	12000.00	2211.25	
3	400x150X200	25.478	12000.00	2123.17	

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Kerbstone/2019-20 25.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Kerbstone
*** Grade of Concrete**	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	23.07.2019
Date of Testing	:	25.07.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.952	23.35	11.89	12.84	13.48	16.86
2	50.00	79.00	0.396	2552.93	1.58	0.955	24.90	12.68	13.70	13.07	16.34
3	50.00	80.00	0.404	2571.94	1.60	0.957	26.15	13.32	14.38	13.76	17.20

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Precast Slab/2019-20 25.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Precast Slab (100mm thick)
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	23.07.2019
Date of Testing	:	25.07.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.412	2590.49	1.62	0.959	31.25	15.92	17.19	17.92	22.41
2	50.00	80.00	0.398	2533.75	1.60	0.957	32.80	16.70	18.04	17.26	21.58
3	50.00	82.00	0.407	2527.85	1.64	0.961	33.45	17.04	18.40	17.68	22.10

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/SAND-Gradation/2019-20 25.07.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
***Sample ID**	:	Fine Aggregates (Sand Pointing)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	23.07.2019
Date of Testing	:	25.07.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	98.80	95-100
2.36	97.40	95-100
1.18	96.40	90-100
600 Micron	93.10	80-100
300 Micron	45.60	20-65
150 Micron	9.10	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Cube/2019-20 19.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of the work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.154	363.5	16.16
2	22.07.2019	19.08.2019	8.269	374.1	16.63
3	22.07.2019	19.08.2019	8.375	382.9	17.02

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Cube/2019-20 19.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of the work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.130	379.8	16.88
2	22.07.2019	19.08.2019	8.210	385.4	17.13
3	22.07.2019	19.08.2019	8.360	402.3	17.88

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Cube/2019-20 19.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of the work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.157	375.4	16.68
2	22.07.2019	19.08.2019	8.210	384.6	17.09
3	22.07.2019	19.08.2019	8.392	392.0	17.42

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/MKRE/W.No.09/CSR-999n/Cube/2019-20 21.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. M.K.R. Enterprises** Prop. Sri. Mahendra Kumar, #4, 6th Main, P and T Colony, Sanjayanagara, Bangalore – 560 094.
*** Name of the work**	:	Improvements to drains at Ganesh Temple road in 4th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2019	21.08.2019	8.192	395.4	17.57
2	24.07.2019	21.08.2019	8.358	405.4	18.02
3	24.07.2019	21.08.2019	8.227	416.3	18.50

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Sample Received on	:	21.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2019	21.08.2019	8.367	385.7	17.14
2	24.07.2019	21.08.2019	8.190	368.5	16.38
3	24.07.2019	21.08.2019	8.248	374.2	16.63

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